Additional Draft Revisions to WQS Submittal February 14, 2011

Water Quality Standard 8:

January 2011 Text:

8. Water Quality Standards and Criteria do not apply to environmental conditions brought about by natural causes or conditions.

February 2011 Revision:

8. Water Quality Standards and Criteria do not apply to environmental conditions brought about by natural causes or conditions.

Clarification: This portion of the WQS is intended to indicate that when natural conditions lead to an excursion of one or more parameters/conditions above that which is specified within the WQS as acceptable, there is a narrow application of Standard 8, applicable only to those parameters or conditions which are exceeded due to national causes or conditions. WQS are still applicable to other parameters or conditions within the water body which are unaffected by natural causes or conditions.

Appendix C Dissolved Oxygen in Marine Waters:

January 2011 Text:

Table 1. Dissolved Oxygen Chronic Cumulative Exposure Criteria for incremental ranges (0.5 mg/l and 0.3 mg/l) applicable to Class SA and SB					
waters.					
DO Range (mg/l)		No. of Days			
		Allowed			
<4.8	≥ 4.5	30			
<4.5	≥ 4.0	14			
<4.0	≥ 3.5	7			

≥3.0

February 2011 Revision:

<3.5

incremental ranges (0.5 mg/l and 0.3 mg/l) applicable to Class SA and SB					
waters.					
DO Range (mg/l)		No. of Days			
		Allowed Per			
		Calendar			
		Year			
<4.8	≥ 4.5	30			
<4.5	≥ 4.0	14			
<4.0	≥ 3.5	7			
<3.5	≥ 3.0	2			

Lake Trophic Categories: Table 1

Language from Description under Mesotrophic and Eutrophic sections pertaining to wildlife and fishing uses is proposed for deletion. See following page.

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Trophic State Based on Water Column Data	Description	Parameters	Defining Range		
May be Class AA, Class A, or plant nutrients. Low broke characterized by the absence		Total Phosphorus	0-10 dg/V spring and summer		
	May be Class AA, Class A, or Class B water. Low in plant nutrients, Low biological productivity	Total Nitrogen	0-200 ug/) spring and summer		
	chárácterized by the absérice of mácrophyte béds. High potential for water contact recreation.	Chlorophyll-a	0-2 ug/l mid-summer		
		Secchi Disk Transparency	64 meters mid summer		
Moderately enriched with plant biological productivity character blooms of algae and/or small a	May be Class AA, Class A, or Class B water	Total Phosphorus	10-30 ug/Lspring/and sunnner		
	Moderately enriched with plant nutrients. Moderate biological productivity characterized by intermittent	Tøtal Nitrøgen	200-600 ug// spring and summer		
	blooms of algae and or small areas of macrophyte beds. Good potential for water contact recreation.	Chlorophyll-a	2-15 ug/l mig-summer		
	Good rosource for wilelifo populations.	Seechi Disk transparency	2-6 meters mid-summer		
enriched with plant hutu productivity characterized algae and/or extensive are	May be Class AA, Class A, or Class B water Highly enriched with plant hutrients. High biological	Total Prosphorus	30-50 ug/V spring and summer		
	productivity characterized by occasional blooms of algae and/or extensive areas of dense macrophyte	Total Nitrogen	600-1000 ug// spring and		
	beds. Water contact recreation opportunities may be importunities may be importunities and	Chiorophyll-a	15-30- ug/Krnid-summer		
	for wildlife pobulations.	Secchi Disk Transparency	1-2 meters mid-summer		
enrichment with plani Productivity, characteriz Eutrophic and/or extensive areas	May be Class AA, Class A, or Class B water. Excessive	Total Phosphorus	50.4 ug/J spring and summer		
	enriehment with plant nutrients. High biological productivity, characterized by severe blooms of algae	Total Mitrogen	1,000 + ug/l spring and summer		
	and/or extensive areas of dense macrophyte beds. Water contact recreation may be extremely limited.	Chlorophyll-a	30 + ug/X mid-summer		
		Secchi Disk Transparency	0-1 meters mid-summer		

Appendix E Antidegradation Implementation Policy:

V. TIER 2 ANTIDEGRADATION EVALUATION AND IMPLEMENTATION REVIEW

January 2011 Text:

1. The Commissioner shall determine whether the new or increased discharge or activity will result in a significant lowering of water quality in a high quality water or any wetland by utilizing all relevant available data and the best professional judgment of Department staff and considering the discharge or activity both independently and in the context of other discharges and activities in the affected water body and considering any TMDL established for the water body. The Commissioner may determine that under the following circumstances a proposed new or increased discharge or activity would not reasonably be expected to significantly lower water quality in high quality waters or wetlands:

February 2011 Revision:

1. The Commissioner shall determine whether the new or increased discharge or activity will result in a significant lowering of water quality in a high quality water or any wetland by utilizing all relevant available data and the best professional judgment of Department staff and considering the discharge or activity both independently and in the context of other discharges and activities in the affected water body and considering any TMDL established for the water body. The Commissioner may determine that—only under the following circumstances that a proposed new or increased discharge or activity would not reasonably be expected to significantly lower water quality in high quality waters or wetlands: